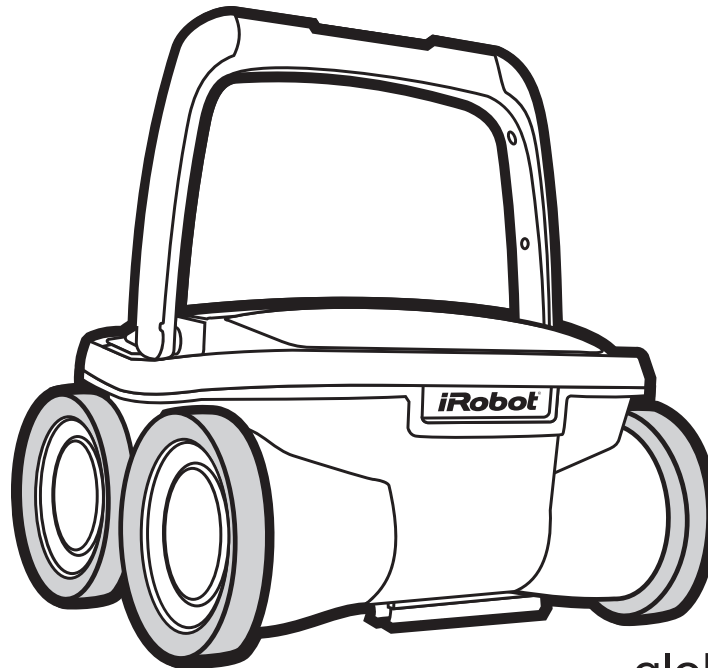


iRobot[®]

Mirra[™]

Pool Cleaning Robot

Model 530 Owner's Manual



global.irobot.com

IMPORTANT SAFETY INSTRUCTIONS

READ AND FOLLOW ALL THE INSTRUCTIONS

CAUTION: Do not plug the power supply into a grounded outlet or do not switch the pool cleaner "ON" if it is not fully immersed in water.

Operating the cleaner out of water will cause severe damage immediately and will result in loss of warranty.

Allow the cleaner to remain in the pool for 15 to 20 minutes following the end of its cleaning cycle. This will allow the motors to cool adequately. Do not leave the cleaner in the pool all the time. Always remember to turn the power supply "OFF" and unplug it from the power outlet before removing the cleaner from the pool.

WARNING: The cleaner must not be used when people are in the water. For use with swimming pool only.

Safety Note

- The unit must be supplied through a residual current device (RCD or GFCI) having a rated residual operating current not exceeding 30 mA
- The connection to the branch circuit should be consistent with the local and national wiring rules (electrical code).
- Mishandling of the unit can result in leakage of lubricants.
- If the supply cord is damaged, it must be replaced by the manufacturer's service agent or a qualified and trained person in order to avoid hazards.



This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.



WARNING: A Ground Fault Current Interrupter (GFCI-USA) or a Residual Current Device (RCD-EUROPE) must be installed to protect your electric outlet and prevent any possible electric shock.

SAVE THESE INSTRUCTIONS

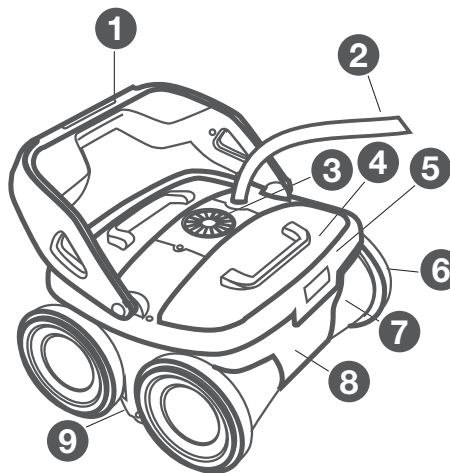
Please read this manual completely before operating your pool cleaner.

Registration and Warranty

Please visit www.irobot.com/register to register your product and activate your warranty.

Components

While the appearance of your cleaner and some of its components may differ from those shown here, the function of the cleaner, operating procedures and maintenance practices are the same.



- 1) Handle
- 2) Cable
- 3) Outlet Top
- 4) Filter Access
- 5) Filter Lock Lever
- 6) Wheels
- 7) Unit Body
- 8) Intake Valves
- 9) Rolling Brush

Your new automatic pool cleaner contains:

- The Robotic pool cleaner with its floating cable.
- The Power Supply (transformer).

Welcome



Dear Mirra Owner,

Thank you for choosing a new generation iRobot Mirra pool cleaning robot. You're joining a very special community of people - 7.5 million worldwide and growing - who are discovering just how useful, convenient and straightforward having a home robot is. In fact, owners tend to like their robots so much they've even given them nicknames.

We're passionate about our robots too. Not surprisingly, given that making robots is all we've ever done in the 20 odd years of our existence.

Now, you're probably itching to give your Mirra a go, but it's worth having a quick read of this manual first. That way it will be even easier to use and save you even more time.

I hope you will have many enjoyable experiences with your Mirra and on behalf of all the team thank you for choosing iRobot.

Best Wishes,



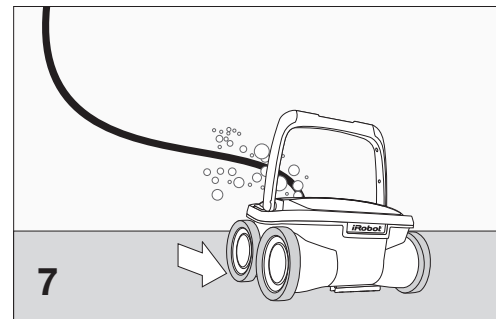
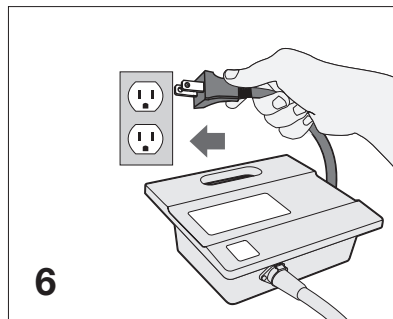
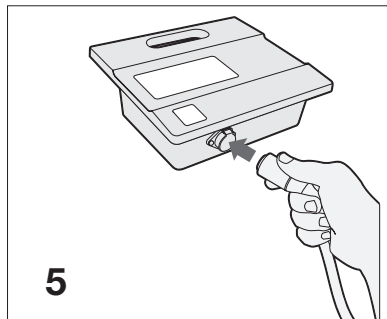
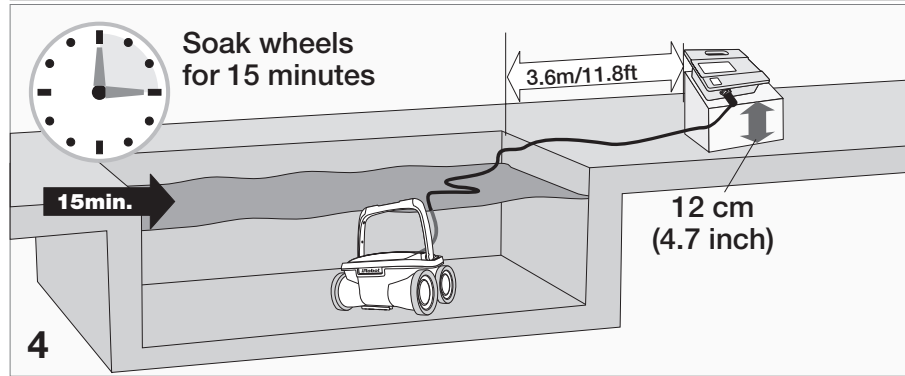
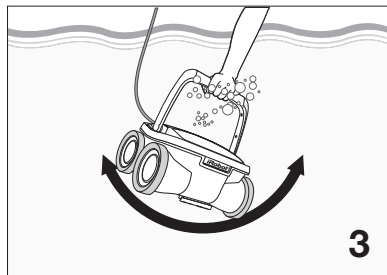
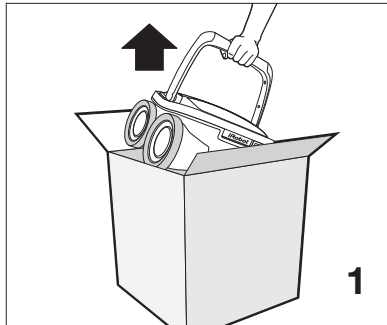
A stylized, handwritten signature of Colin Angle in black ink.

Colin Angle
Chairman, CEO and Co-Founder
iRobot Corporation

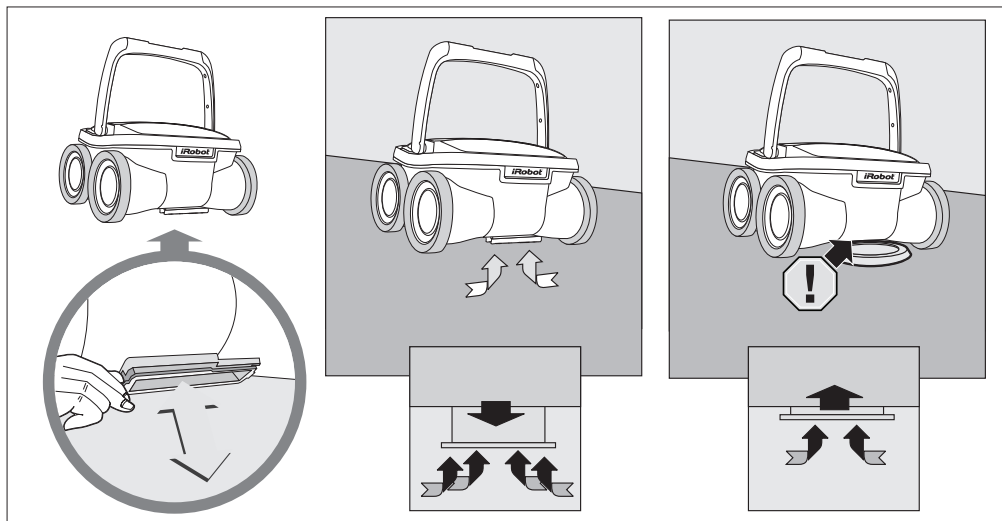
Table of Contents

Getting Started	5
Maintenance and Adjustment	6-7
Cleaning the Filter/ Changing the Rolling Brush	8
Accessing and Cleaning the Propeller	9
Operating Your Pool Cleaner	10-12
Troubleshooting.....	13
Power Supply	14
Declaration of Conformity	15
iRobot Customer Care	16

Getting Started



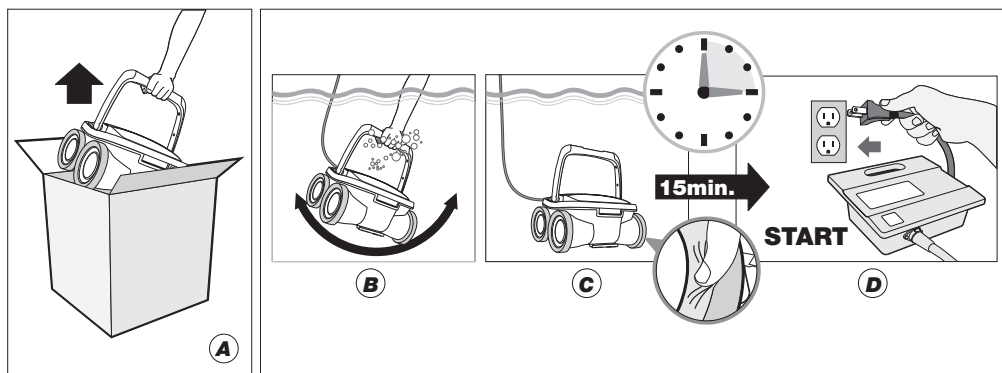
Maintenance and Adjustment



INTAKE VALVES ADJUSTMENT

Adjust filter valve to get
best suction on ground.

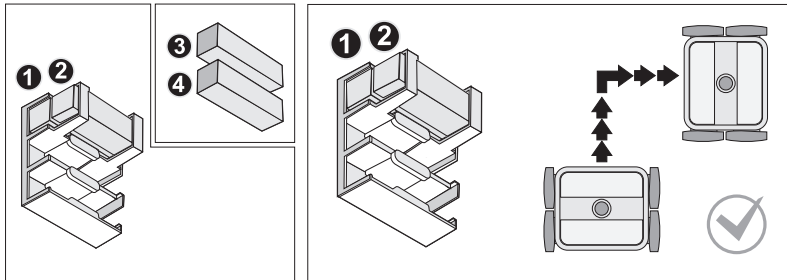
Adjust filter valve to get
best clearance on ground.



PVA WHEELS SOAKING

Soak wheels after extended
period of storage.

Maintenance and Adjustment Continued

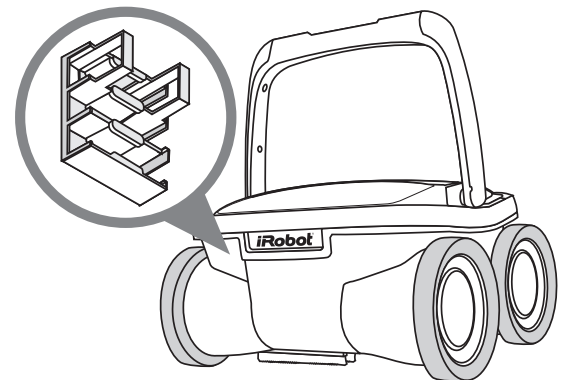
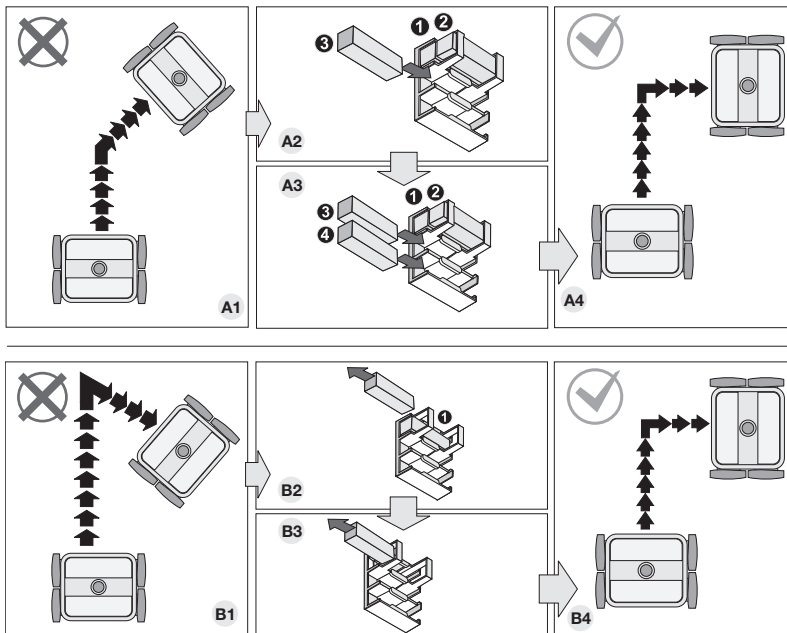


FLOAT INSTALLATION

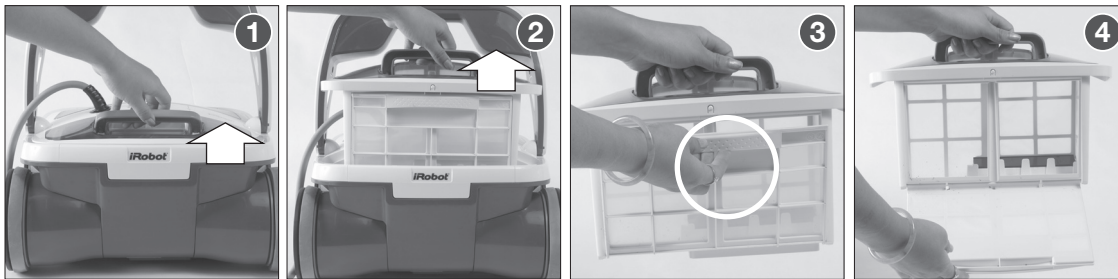
Robot should turn 90 degrees on the first turn of a new cleaning cycle.

Remove filter canister to access float block holder

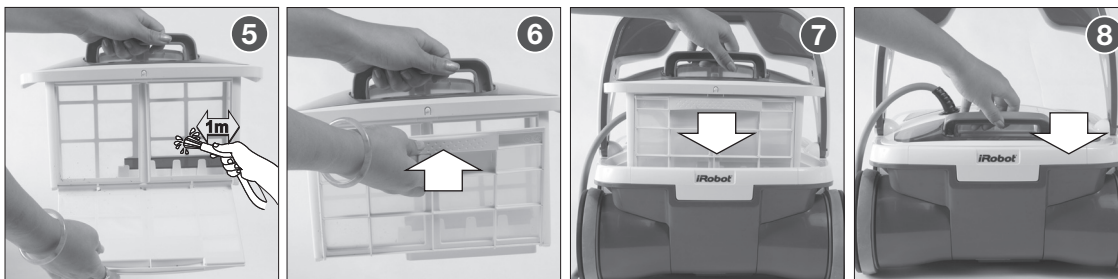
Adjust amount of float blocks to achieve desired turning behaviors.



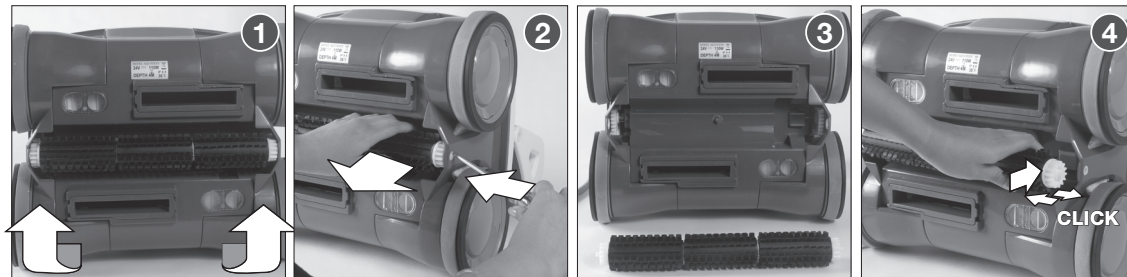
Cleaning the Filter



It is recommended to clean the filter after each working-cycle.



Changing the Rolling Brush

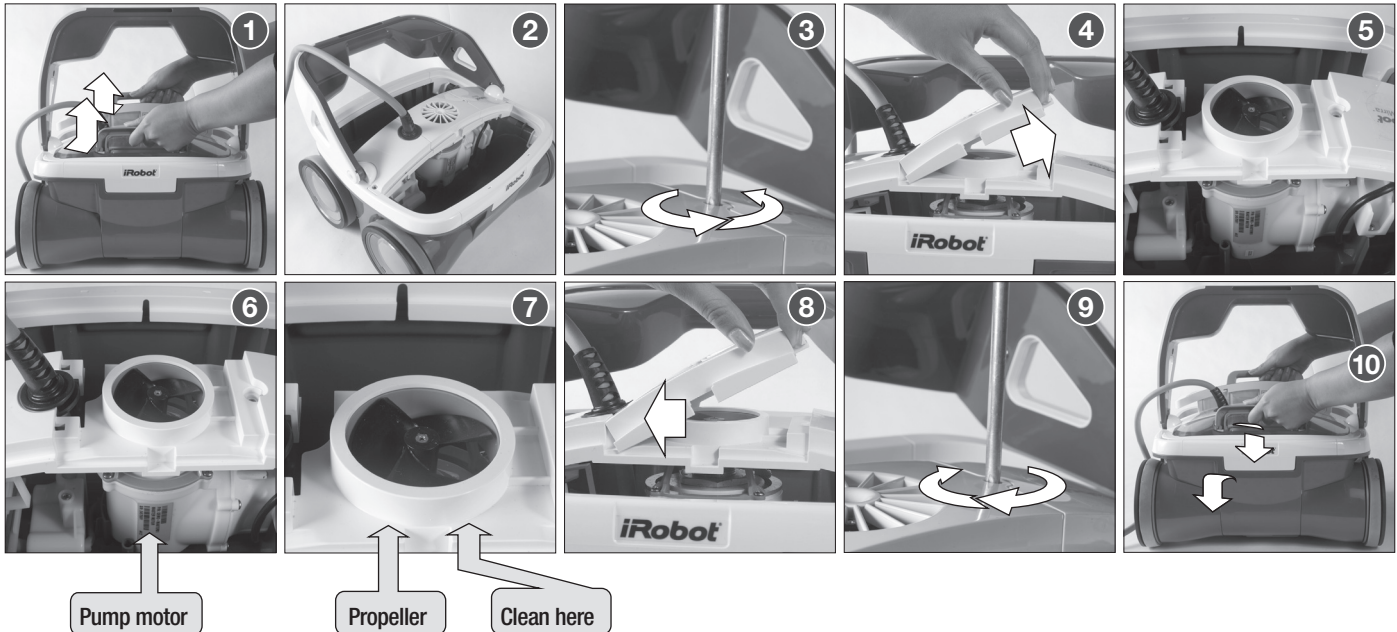


Accessing and Cleaning the Propeller



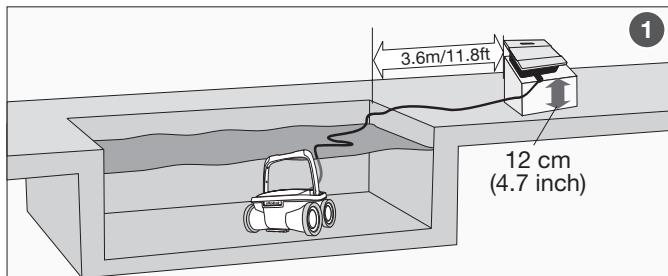
DISCONNECT THE ROBOT FROM THE POWER-SUPPLY BEFORE PERFORMING THIS ACTION

Clean the propeller if experiencing poor suction.

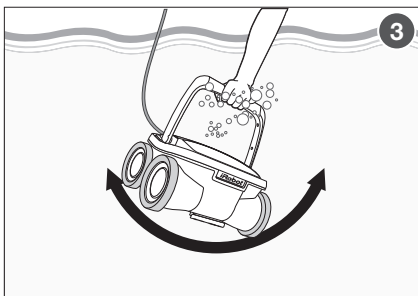


Operating Your Pool Cleaner - Set Up

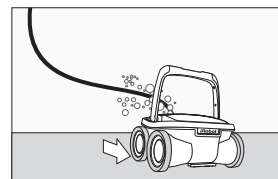
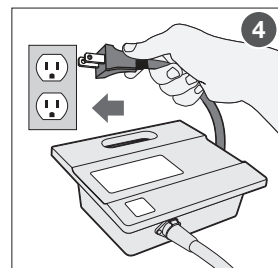
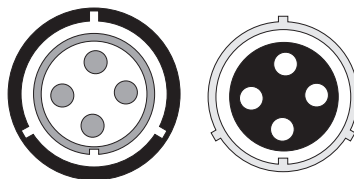
1. Place the power supply (transformer) at least 3.6 meters / 11.8 feet from the pool and at least 12 cm / 4 inch above the surface. The transformer will supply low voltage to the cleaner.
2. Uncoil the cable.



3. Place the unit in the water. Turn the unit side to side in the water to allow air to escape from the body and then let the cleaner sink to the bottom of the pool. Then, spread the cable over the surface of the pool as evenly as possible.



4. Plug the cable into the power supply. Make sure the key on the plug corresponds exactly with the key slot on the socket of the power supply. (See details on the next page)
5. Plug the power supply into a grounded outlet. Ensure that the electric outlet has been properly grounded.
6. Press the CLEAN button and the light will glow indicating that the system is "ON" and the pool cleaner will start the cleaning cycle.



IMPORTANT:

Please be sure to always keep your pool cleaner properly stored anywhere between 10 to 40 degrees Celsius (50 to 104 degrees Fahrenheit). This will keep the motors, plastics and seals protected.

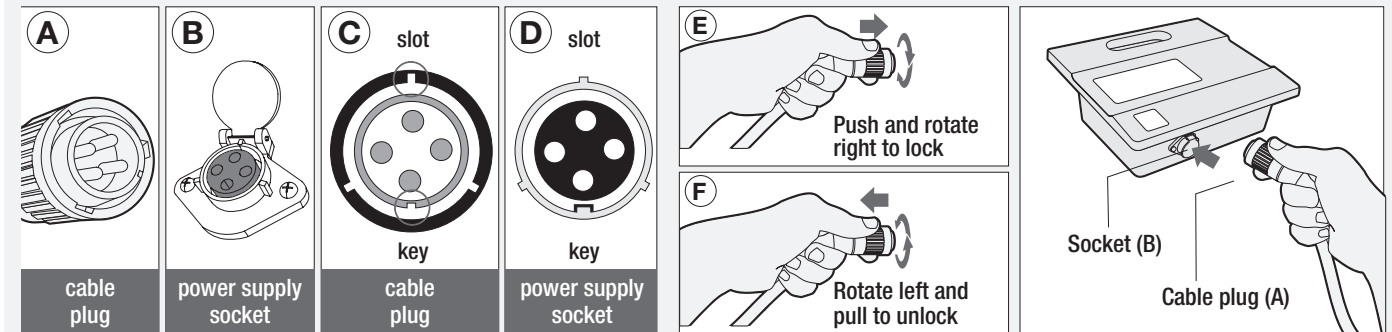
Robot can be used in water with temperatures ranging from 13°C to 35°C (55°F to 95°F). However, the recommended optimal temperature is between 22°C and 32°C (72°F and 90°F)

Operating Your Pool Cleaner - Plugging the Cable

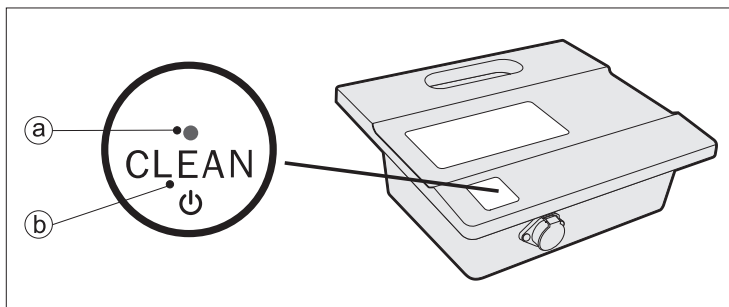
Plug Type

To plug the cable (Fig A) into the socket on the power supply (Fig. B), please do the following:

1. Prepare the plug as seen in (Fig. C) with the key and 3 outside slots exactly as shown.
2. Fit exactly the key and the slots from cable plug with the corresponding key and slots from the power supply socket. (Fig. D)
3. Push the plug all the way into the socket of the power supply.
4. Once the plug is in, rotate the plug to the right to lock it into place (Fig. E).
5. To remove the plug, first rotate the plug to the left to unlock it, then pull it out (Fig. F).



Operating Your Pool Cleaner - Power Button



a. Power LED

The blue LED flashes when the power supply is in standby mode and lights continuously when the pool cleaner is operating.

b. "CLEAN" button

The button switches between "ON" and "STANDBY".

IMPORTANT- After every cycle the pool cleaner will automatically go to "stand-by". In case you want to turn the machine off during the working cycle, press the CLEAN button once and the LED will start flashing, indicating that the machine has stopped running.

Maintenance Tips

- Shut off and unplug the power supply every time you remove the cleaner from the water.
- It is recommended to clean the filter after every cycle.
- Periodically straighten out the floating power cord.
- Save your cleaner's packaging for off-season storage or for shipping the unit to your dealer if service is required.
- Do not leave your cleaner in direct sunlight when not in use.
- Never leave the power supply in direct sunlight and avoid leaving it in the rain.
- Occasionally, you should rinse your cleaner in clean, fresh water. This will lengthen the service life of your cleaner.
- Clean the propeller once a month.

Troubleshooting

PLEASE CHECK THE FOLLOWING BEFORE CALLING YOUR SERVICE CENTER

Before troubleshooting, the pool cleaner must be disconnected from the power supply and the power supply must be unplugged from the electrical outlet to prevent damage to the unit and possible personal injury.

1. Unit does not pump water or move:

- Check to see if electric outlet has power.
- Check if transformer is plugged into a grounded outlet and the cable assembly is plugged into the transformer.*
- Switch the power supply "OFF" and "ON" a few times.
Allow 45 seconds between "ON" and "OFF".
- Check for and remove any debris such as hair, string, or leaves that may be obstructing the free movement of the wheels.

2. Unit does not pump water at all, or pumps slowly but moves:

- Check to see if propeller is seized due to accumulation of hair or debris on the propellers. Remove the top screw on the outlet top and clean the propeller. When reassembling the top cover, do not overtighten the screw.
- Check to see if the filter canisters are thoroughly clean. Clean as necessary.
- After following all of the above, if there is still a problem, visit global.irobot.com

3. Unit does not move but does pump water:

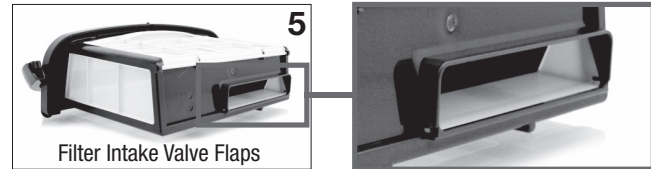
- Check to see if forward/reverse motion is obstructed by foreign matter; hair, debris, etc. on wheels or there is an entanglement with the power cord.
- Check there is no debris stuck inside the wheel between gears
- Verify if the rolling brush is properly positioned and not broken.
The brush is transferring the rotation to the wheels and - if broken- the robot will not move properly.
- After following all of the above, if there is still a problem, visit global.irobot.com

4. Unit does not climb the wall:

- Check to see if the filter canisters are thoroughly clean. Clean as necessary.

5. Unit does not pick up dirt and debris:

- Check 2a and 2b of this guide.
- Extend the water intake (see page 6)
- Check the Filter Intake Valve Flaps on the underside of your unit (see image below). The Flaps should move freely to open and close. Clean and free the Valve Flaps if necessary.



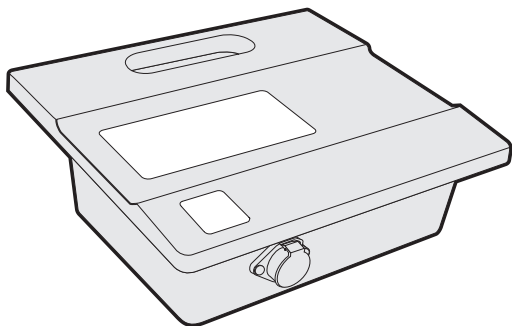
6. Unit does not seem to cover the entire pool:

- Most likely a thorough cleaning of the filter is needed.
- Verify that the unit rotates by 90 degrees on the first turn of a new cycle.
If not - add or remove floats according to the instructions on page 7.
- Check to see that the floating cable is properly spread out and is untangled.
- Allow the unit to run in the pool for the entire cleaning cycle.
- Check that the Motor is operating.
- After following all of the above, if there is still a problem, visit global.irobot.com

7. Debris Comes Out Of The Unit When Removing It From Pool

- Filter lock handle (Top Access Lid Does Not Close Properly) -
Check that the Lock handle release mechanism is not damaged. The lid edges should be aligned with the unit's body and the top filter is properly locked.
- Intake Valves - Check that the Filter Intake Valve Flaps (see image above) move freely to open and close. Clean flaps if necessary.

Power Supply

**Physical**

Dimensions (W * D * H) _____ 273mm * 242mm * 90mm
10.75in * 9.53in * 3.54in

Weight _____ 1.9 Kg / 4.19 lbs

Electrical

Input rating _____ 100-240V~, 50/60Hz, 210W

Output rating _____ 29V, 6.3A

Storage temperature _____ -10°C - 60°C (14°F - 140°F)

Operating temperature _____ 0°C - 45°C (32°F - 113°F)

Ingress protection _____ IP54

Grounding

The power supply must be connected to a grounded 3 conductor socket. The main power supply must be connected via a GFCI (ground fault circuit interrupter) or RCD (residual current device) having a rated residual operating current not greater than 30mA.

Maintenance and safety

The cover should not be removed except by an authorized service agent or trained and qualified person. No internal adjustment or component replacement can be carried out by the user. The power cable must be disconnected before removing the cover. If the power supply cord is damaged, it must be replaced by an authorized service agent or trained and qualified person. Do not operate the supply if the cord is damaged.

Environmental conditions

The power supply is designed to work both indoors and outdoors. However, the unit should not be operated in direct sunlight or be exposed to water. The power supply should not be operated in an ambient temperature in excess of 40°C.

Declaration of Conformity

Test Standards

EN60335-1 Household and similar electrical appliances-Safety Part 1: General requirements

EN60335-2-41 Household and similar electrical appliances-Safety Part 2 Particular requirement for pumps

EN62233 Electromagnetic fields-Methods for evaluation and measurement

FCC Notice: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the manufacturer, dealer, or an experienced radio/TV technician for help.

⚠ WARNING: Changes or modifications not expressly approved by iRobot could void your warranty.

Get Robot Updates

Register your Robot! Go to global.irobot.com

iRobot Customer Care USA

If you have questions or comments about this product please contact iRobot before contacting a retailer.

Please visit the iRobot home support site at **www.irobot.com/support** for support tips, frequently asked questions, or information about accessories and other iRobot products.

Should you still need assistance:

Call our Customer Care team at **877.855.8593**.

iRobot Customer Care Hours:

- Monday – Friday 9AM – 7PM Eastern Time
- Saturday 9AM – 6PM Eastern Time

iRobot Customer Care Outside USA & Canada

Visit **global.irobot.com** to:

- Learn hints and tips to improve the performance of your robot
- Get answers to questions
- Download a detailed product manual
- Contact your local distributor